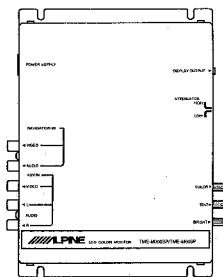
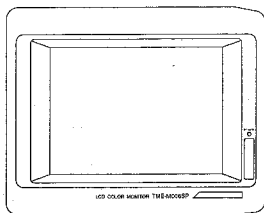


ALPINE **SERVICE MANUAL**

5.6-inch LCD Color Monitor Unit

- This model is component system unit of AV Interface Unit and Monitor Unit.



TME-M006SP

Contents

Packing Assembly Parts List

Packing Method View

● AV Interface Unit

Specifications

Adjustment Procedures

Parts Layout on P.C.Board and Wiring Diagram

Schematic Diagram

Terminal Voltage of IC/TR

Electrical Parts List

Exploded View (Cabinet)

Cabinet Assembly Parts List

● Monitor Unit

Specifications

Adjustment Procedures

Parts Layout on P.C.Boards and Wiring Diagram

Schematic Diagram

Terminal Voltage of IC/TR

Electrical Parts List

Exploded View (Cabinet)

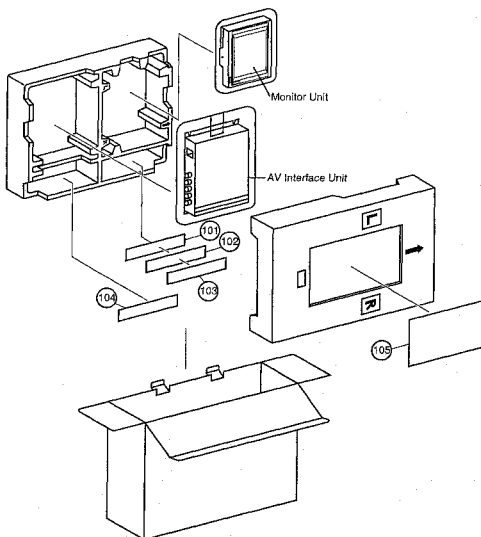
Cabinet Assembly Parts List

NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101	01T85426W02	Assy., Cable			
102	01T25930W08	Assy., Power Wire			
103-1	03S40018G07	Screw, Tapping (M4X14)			
103-2	75T59346F01	Pad, Magic Tape			
104	01T85380W02	Stand, ETST7			
105	68P91508W23	Owner's Manual			

Packing Method View



AV Interface Unit

Contents

Specifications
Adjustment Procedures
Parts Layout on P.C.Board and Wiring Diagram
Schematic Diagram
Terminal Voltage of IC/TR
Electrical Parts List
Exploded View (Cabinet)
Cabinet Assembly Parts List

Specifications

Output	VIDEO : 1Vp-p
	AUDIO : 500mV
Input	VIDEO : 1Vp-P
	AUDIO : 500mV
FSC	PAL : 4.433618MHz \pm 300Hz
	NTSC : 3.579545MHz \pm 300Hz
Audio Attenuator	HIGH : \pm 0dB
	LOW : -6dB
Power Supply	DC14.4V (11~16V allowable)
Semiconductors	8 IC's, 23 Transistors, 5 Diodes, 1 Zener Diodes
Dimensions (W×H×D)	202×144.5×29mm
Weight	550g

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Adjustment Procedures

1) Preparation for adjustments

- ① Connect the AV interface unit to the Monitor unit .
- ② Connect the DC voltage regulator power supply of $14.4 \pm 0.1V$ to the power supply connector (ET801).
- ③ Set each switch / Volume of the AV interface unit to the following position.

• ATTENUATOR Level switch (S201)	[HIGH]
• Volume, COLOR (VR906) / TINT (VR907) / BRIGHT (VR908)	[Center Position]

 Set each switch of the Monitor unit to the following position.

• Main POWER Switch (S500)	[STAND BY]
• DIMMER Switch (S501)	[HIGH]

2) Adjustment procedures

- ① Connect the DC voltmeter between T.P.1 and GND. Adjust VR901 unit the voltage level between T.P.s above becomes $0.95 \pm 0.1V$.
- ② Connect the DC voltmeter between T.P.2 and GND. Adjust VR902 unit the voltage level between T.P.s above becomes $1.38 \pm 0.1V$.
- ③ Connect the DC voltmeter between T.P.3 and GND. Adjust VR903 unit the voltage level between T.P.s above becomes $0.5 \pm 0.1V$.
- ④ Connect the DC voltmeter between T.P.4 and GND. Adjust VR904 unit the voltage level between T.P.s above becomes $2.5 \pm 0.1V$.
- ⑤ Connect the DC voltmeter between T.P.5 and GND. Adjust VR905 unit the voltage level between T.P.s above becomes $3.5 \pm 0.1V$.

NOTE : For the Adjustment parts and Test Points, refer to the Parts Layout on P.C.Boards and Wiring Diagram.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
E205	23T75478W15	ELY., 10 μ F / 16V	C912	08S82122F13	CP., 10pF
C206	08S65128F76	CP., 0.1 μ F	E912	23T75478W15	ELY., 10 μ F / 16V
E206	23T75478W19	ELY., 100 μ F / 16V	C913	08S65128F72	CP., 0.022 μ F
E207	23T75478W16	ELY., 22 μ F / 16V	E913	23T75478W37	ELY., 1 μ F / 50V
E208	23T75478W15	ELY., 10 μ F / 16V	C914	08S82122F16	CP., 13pF
E209	23T75478W33	ELY., 0.1 μ F / 50V	E914	23T75478W15	ELY., 10 μ F / 16V
E210	23T75478W16	ELY., 22 μ F / 16V	C915	08S65128F69	CP., 0.01 μ F
E401	23T75478W37	ELY., 1 μ F / 50V	E915	23T75478W37	ELY., 1 μ F / 50V
E402	23T75478W37	ELY., 1 μ F / 50V	C916	08S65128F72	CP., 0.022 μ F
C801	08S65128F76	CP., 0.1 μ F	E916	23T75478W38	ELY., 2.2 μ F / 50V
E801	23T75478W63	ELY., 2200 μ F / 16V	C917	08S65128F12	CP., 10pF
E802	23T75478W15	ELY., 10 μ F / 16V	C918	08S65128F17	CP., 18pF
C803	08S65128F76	CP., 0.1 μ F	E918	23T75478W15	ELY., 10 μ F / 16V
E803	23T75478W15	ELY., 10 μ F / 16V	C919	08S65128F69	CP., 0.01 μ F
C804	08S65128F76	CP., 0.1 μ F	C920	08S65128F76	CP., 0.1 μ F
C807	08S65128F76	CP., 0.1 μ F	E920	23T75478W15	ELY., 10 μ F / 16V
E807	23T75478W27	ELY., 470 μ F / 16V	C921	08S65128F69	CP., 0.01 μ F
C808	08S65128F76	CP., 0.1 μ F	E921	23T75478W19	ELY., 100 μ F / 16V
E808	23T75478W63	ELY., 2200 μ F / 16V	C922	08S65128F69	CP., 0.01 μ F
C809	08S65128F76	CP., 0.1 μ F	E922	23T75478W40	ELY., 4.7 μ F / 50V
E809	23T75478W63	ELY., 2200 μ F / 16V	C923	08S65128F69	CP., 0.01 μ F
E811	23T75478W15	ELY., 10 μ F / 16V	E923	23T75478W16	ELY., 22 μ F / 16V
E812	23T75478W18	ELY., 47 μ F / 16V	C924	08S65128F69	CP., 0.01 μ F
C813	08S65128F76	CP., 0.1 μ F	E924	23T75478W19	ELY., 100 μ F / 16V
E813	23T75478W15	ELY., 10 μ F / 16V	C925	08S65128F76	CP., 0.1 μ F
E814	23S55311W61	CP., TAN, 1 μ F / 25V	E925	23T75478W40	ELY., 4.7 μ F / 50V
E815	23T75478W27	ELY., 470 μ F / 16V	C926	08S65128F76	CP., 0.1 μ F
C901	08S65128F76	CP., 0.1 μ F	E926	23T75478W16	ELY., 22 μ F / 16V
E901	23T75478W20	ELY., 220 μ F / 16V	E927	23T75478W19	ELY., 100 μ F / 16V
C902	08S65128F21	CP., 27pF	E928	23T75478W19	ELY., 100 μ F / 16V
E902	23T75478W20	ELY., 220 μ F / 16V	E929	23T75478W40	ELY., 4.7 μ F / 50V
C903	08S65128F69	CP., 0.01 μ F	E930	23T75478W16	ELY., 22 μ F / 16V
E903	23T75478W16	ELY., 22 μ F / 16V	E931	23T75478W19	ELY., 100 μ F / 16V
C904	08S65128F69	CP., 0.01 μ F	E932	23T75478W40	ELY., 4.7 μ F / 50V
E904	23T75478W16	ELY., 22 μ F / 16V	E933	23T75478W16	ELY., 22 μ F / 16V
C905	08S65128F69	CP., 0.01 μ F	E934	23T75478W19	ELY., 100 μ F / 16V
E905	23T75478W19	ELY., 100 μ F / 16V	E935	23T75478W15	ELY., 10 μ F / 16V
C906	08S65128F69	CP., 0.01 μ F	C997	23S82372F18	ELY., (B.P.) 1 μ F / 50V
E906	23T75478W15	ELY., 10 μ F / 16V	C999	23S82372F18	ELY., (B.P.) 1 μ F / 50V
C907	08S65128F69	CP., 0.01 μ F			
E907	23T75478W15	ELY., 10 μ F / 16V			
C908	08S65128F26	CP., 51pF			
E908	23T75478W15	ELY., 10 μ F / 16V			
C909	08S65128F20	CP., 24pF			
E909	23T75478W37	ELY., 1 μ F / 50V			
C910	08S65128F72	CP., 0.022 μ F			
E910	23T75478W37	ELY., 1 μ F / 50V			
C911	08S65128F69	CP., 0.01 μ F			
E911	23T75478W15	ELY., 10 μ F / 16V			

(All resistors are chip 1/10W \pm 5% unless otherwise noted.)

Resistors

R201	06S64995F84	20K ohm
R202	06S64995F84	20K ohm
R203	06S64995F84	20K ohm
R204	06S64995F77	10K ohm
R205	06S64995F77	10K ohm
R206	06S64995F84	20K ohm

TME-M006SP

Symbole No.	Part No.	Description	Symbole No.	Part No.	Description
R207	06S64995F84	20K ohm	R827	06S70072F32	130 ohm 1/4W
R208	06S64995F84	20K ohm	R903	06S64995F26	75 ohm
R209	06S64995F84	20K ohm	R904	06S64995F26	75 ohm
R210	06S64995F77	10K ohm	R905	06S64995F29	100 ohm
R211	06S64995F77	10K ohm	R907	06S64995F84	20K ohm
R213	06S64995F02	100K ohm	R908	06S64995F84	20K ohm
R214	06S64995F53	1K ohm	R909	06S64995F53	1K ohm
R215	06S64995F53	1K ohm	R910	06S64995F53	1K ohm
R216	06S64995F89	33K ohm	R911	06S64995F41	330 ohm
R217	06S64995F93	47K ohm	R912	06S64995F53	1K ohm
R218	06S64995F45	470 ohm	R913	06S64995F47	560 ohm
R219	06S64995F53	1K ohm	R914	06S64995F47	560 ohm
R401	06S64995F69	4.7K ohm	R915	06S64995F53	1K ohm
R402	06S64995F93	47K ohm	R916	06S64995F77	10K ohm
R403	06S64995F77	10K ohm	R917	06S64995F77	10K ohm
R404	06S64995F89	4.7K ohm	R918	06S64995F77	10K ohm
R405	06S64995F53	1K ohm	R919	06S64995F77	10K ohm
R406	06S64995F84	20K ohm	R921	06S64995F97	68K ohm
R407	06S64995F53	1K ohm	R922	06S64995F76	9.1K ohm
R408	06S64995F01	2.2K ohm	R923	06S64995F92	43K ohm
R409	06S64995F02	100K ohm	R924	06S64995F77	10K ohm
R410	06S64995F84	20K ohm	R925	06S64995F97	88K ohm
R411	06S64995F93	47K ohm	R926	06S64995F64	3K ohm
R412	06S64995F91	15K ohm	R927	06S64995F53	1K ohm
R413	06S64995F93	47K ohm	R928	06S64995F91	39K ohm
R414	06S64995F84	20K ohm	R929	06S64995F91	39K ohm
R415	06S64995F81	15K ohm	R930	06S64995F91	39K ohm
R801	06S64995F77	10K ohm	R931	06S64995F93	47K ohm
R802	06S70072F63	2.7K ohm 1/4W	R932	06S64995F55	1.2K ohm
R803	06S70072F63	2.7K ohm 1/4W	R933	06S64995F05	130K ohm
R804	06S64995F79	12K ohm	R934	06S64995F77	10K ohm
R805	06S64995F77	10K ohm	R935	06S64995F77	10K ohm
R806	06S70072F63	2.7K ohm 1/4W	R936	06S64995F77	10K ohm
R807	06S70072F63	2.7K ohm 1/4W	R937	06S64995F77	10K ohm
R808	06S64995F79	12K ohm	R938	06S64995F77	10K ohm
R809	06S70072F53	1K ohm 1/4W	R939	06S64995F35	5.6M ohm
R810	06S70072F53	1K ohm 1/4W	R940	06S64995F43	390 ohm
R811	06S64995F61	2.2K ohm	R941	06S64995F61	2.2K ohm
R812	06S64995F10	220K ohm	R942	06S64995F70	5.1K ohm
R813	06S64995F71	5.6K ohm	R943	06S64995F77	10K ohm
R814	06S64995F96	75K ohm	R944	06S64995F35	5.6M ohm
R815	06S64995F96	82K ohm	R945	06S64995F53	1K ohm
R816	06S64995F89	30K ohm	R946	06S64995F35	5.6M ohm
R817	06S64995F70	5.1K ohm	R947	06S64995F51	820 ohm
R818	06S70072F49	680 ohm 1/4W	R948	06S64995F84	20K ohm
R820	06S70072F32	130 ohm 1/4W	R949	06S64995F84	20K ohm
R821	06S70072F32	130 ohm 1/4W	R950	06S64995F77	10K ohm
R822	06S70072F32	130 ohm 1/4W	R951	06S64995F53	1K ohm
R826	06S64995F05	10 ohm	R953	06S64995F75	6.2K ohm

TME-M006SP

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
R958	06S64995F85	22K ohm			
R959	06S64995F85	22K ohm			
R960	06S64995F53	1K ohm			
R961	06S64995F84	20K ohm			
R962	06S64995F55	1.2K ohm			
R963	06S64995F88	30K ohm			
R964	06S64995F64	3K ohm			
R965	06S64995F76	9.1K ohm			
R966	06S64995F84	20K ohm			
R967	06S64995F85	22K ohm			
R968	06S94965F53	1K ohm			
VR901	18T45357W13	Variable, CP, 10K ohm			
VR902	18T45357W13	Variable, CP, 10K ohm			
VR903	18T45357W13	Variable, CP, 10K ohm			
VR904	18T45357W13	Variable, CP, 10K ohm			
VR905	18T45357W13	Variable, CP, 10K ohm			
Miscellaneous					
ET901	09T25842W08	Power Supply Connector			
ET901	09T85443W01	16P Connector (To Monitor Unit)			
JK201	09T75320W01	RCA Jack, NAVIGATION IN			
JK202	09T75321W01	RCA Jack, VCR IN			
S201	40T94668F03	Slide Switch, SSSF1214 (ATTENUATOR HIGH/LOW)			
VR906	18T55389W06	Rotary Volume, 50K ohm (COLOR)			
VR907	18T55389W06	Rotary Volume, 50K ohm (TINT)			
VR908	18T55389W06	Rotary Volume, 50K ohm (BRIGHT)			

Monitor Unit

Contents

Specifications
Adjustment Procedures
Parts Layout on P.C.Boards and Wiring Diagram
Schematic Diagram
Terminal Voltage of IC/TR
Electrical Parts List
Exploded View (Cabinet)
Cabinet Assembly Parts List

Specifications

Screen Size	6-type
Display System	Low reflection rear projection type TN liquid crystal panel
Drive System	Active matrix drive, normally white display
Number of Picture Elements	228, 480 pcs. NTSC (H : 960×V : 238 dots) 230, 400 pcs. PAL (H : 960×V : 240 dots)
Light Source	Internal optical system (U-type cold cathode fluorescent tube)
Semiconductors	6 IC's, 14 Transistors, 2 Diodes, 3 Zener Diodes
Dimensions (W×H×D)	171×127×33mm
Weight	510g

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Adjustment Procedures

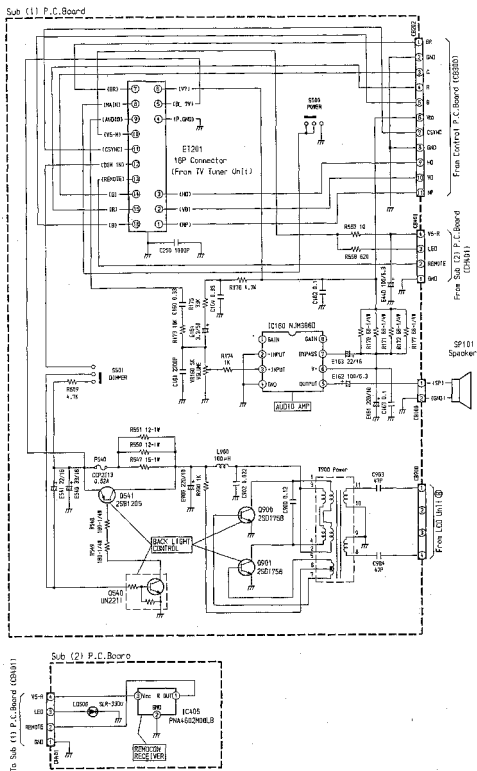
1) Preparation for adjustments

- ① Connect the AV interface unit to the Monitor unit.
- ② Connect the DC voltage regulator power supply of $14.4 \pm 0.1V$ to the power supply connector (ET801).
- ③ Set each switch of the AV interface unit to the following position.
 - ATTENUATOR switch (S201) [LOW]
 - Volume, COLOR (VR906) / TINT (VR907) / BRIGHT (VR908) [Center Position]
 - Set each switch of the Monitor unit to the following position.
 - Main POWER Switch (S500) [STAND BY]
 - DIMMER Switch (S501) [HIGH]
- ④ Supply the composite video signal (color bar signal including 100% white) to the VIDEO input terminal (JK202-1) on the AV interface Unit.

2) Free-run frequency adjustment (VR600) - Screen centering adjustment.

- ① Connect the DC voltmeter (full-scale more than 5V, resolution 10mV) between T.P.600 (PLL Adjust) and T.P.307 (GND).
- ② Adjust VR600 until the voltage between T.P.s above becomes $1.7 \pm 0.1V$.

NOTE : For the Adjustment parts and Test Points, refer to the Parts Layout on P.C. Boards and Wiring Diagram.



Terminal Voltage of IC/TR

IC160	IC300	IC405	IC500	IC501	D500
1 NC	1 4.914V	1 5.033V	1-3 0.152V	1 waveform185	1 (A) -21.33V
2 0.533mV	2 10μV	2 0.543mV	4 -5.521V	2 10μV	2 (C) waveform235
3 waveform245, 246	3 7.236V	3 5.02V	5 0.016V	3 -20.51V	3 (A) -21.33V
4 0.053mV			6 1.998V	4 -21.33V	
5 waveform247, 248			7 1.795V	5 -20.26V	
6 5.96V			8 7.017V	6 7.017V	
7 waveform249				8 waveform185	
8 NC					

IC500	Q540	Q541	Q900	Q901
1 4.914V	30 waveform194	53-62 4.914V	E 76.2mV waveform251	
2 waveform186	31 4.914V	63 3.176V	C 167mV at Back Light Low (DIMMER IN "H"): 6.86V	
3-6 4.914V	32 10μV	64 4.914V	B 8.308V at Back Light Low (DIMMER IN "H"): 22mV	
7 1.094V	33 waveform195	65 3.72mV		
8 waveform187	34 waveform196	66 waveform206		
9 24.04mV	35 waveform196	67 waveform207, 209		
10 1.094V	36 4.914V	68 NC		
11 waveform188	37-40 4.914V	69 waveform209, 210	E 7.262V at Back Light Low (DIMMER IN "H"): 7.306V	
12 24.04mV	41 4.882V	70 4.2mV	C 7.203V at Back Light Low (DIMMER IN "H"): 6.816V	
13 10μV	42 4.914V	71 waveform211, 212	B 6.492V at Back Light Low (DIMMER IN "H"): 6.630V	
14 4.839V	43 10μV	72 10μV		
15 1.094V	44 4.914V	73 4.914V		
16 waveform189	45 waveform197	74 waveform213, 214	E 76.2mV waveform251	
17 24.04mV	46 waveform198, 199	75 waveform215, 216	C waveform252 at Back Light Low (DIMMER IN "H"): waveform252	
18, 19 10μV	47 waveform200	76 waveform217, 218	B waveform254 at Back Light Low (DIMMER IN "H"): waveform255	
20 waveform190	48 waveform201	77 waveform219, 220		
21 waveform191	49 waveform202	78 waveform221, 222		
22 waveform192, 193	50 waveform203	79 waveform223, 224		
23, 24 NC	51 waveform204, 205	80 waveform225, 226	E 76.2mV waveform251	
25-29 4.914V	52 10μV		C waveform256 at Back Light Low (DIMMER IN "H"): waveform257	
			B waveform258 at Back Light Low (DIMMER IN "H"): waveform259	

	E	G	B
Q000	1.094V	10μV	0.444mV
Q001	-8.821V	-21.91V	-0.654V
Q004	4.914V	waveform232	waveform233, 234
Q008	7.017V	waveform236	waveform238

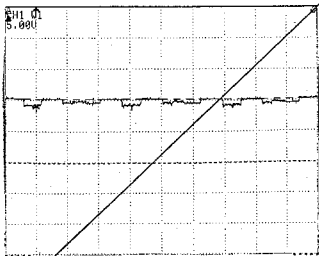
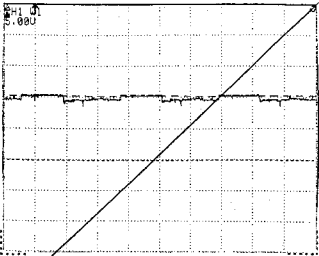
	1 (A)	2 (C)
D001	4.914V	waveform243
D000	10μV	7.256V
D0501	-20.06V	10μV
D0600	-2.87V	10μV
VD000	-835mV	waveform244

	1	2	3	4	5	6
Q001	waveform227, 228	waveform227, 228	10μV	-20.58V	waveform227, 228	10μV
Q002	waveform229	waveform229	10μV	waveform230	waveform229	10μV
Q003	waveform230	waveform231	-21.91V	waveform231	waveform231	-21.91V
Q004	waveform237	waveform237	4.914V	waveform238	waveform237	4.914V
Q001	waveform239	waveform239	4.914V	waveform240	waveform239	4.914V
Q002	waveform241	waveform241	4.914V	waveform242	waveform241	4.914V

NOTE : For the terminal voltage not mentioned, the voltage indication is omitted for the voltage varies depend on the operation mode.

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : AV Interface Unit Connection
- RF : Color bar input (※ch1 ANT1)
- DIMMER SW : AUTO Mode (※DIMMER IN terminal : OPEN)
- Speaker Volume : MAX
- FMT : ON (※20ch)
- NAVI input : No signal
- VIDEO input : No signal

CH1 U1
5.000CH1 U1
5.000

波形 No. 182

Volt/Div= 1 V/Div

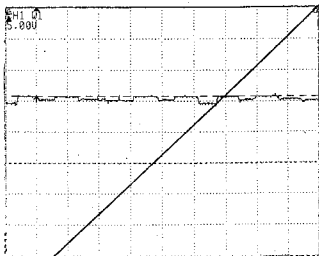
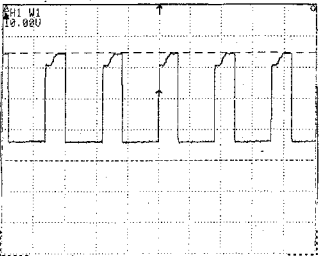
DC · AC

Time/Div= 20 μ S/Div

波形 No. 183

Volt/Div= 1 V/Div

DC · AC

Time/Div= 20 μ S/DivCH1 U1
5.000CH1 U1
10.000

波形 No. 184

Volt/Div= 1 V/Div

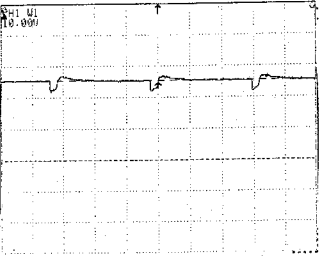
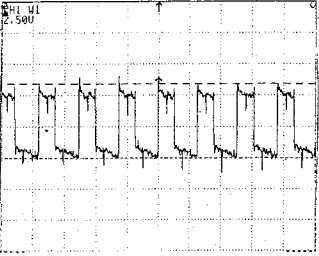
DC · AC

Time/Div= 10 μ S/Div

No. 185

Volt/Div= 2 V/Div

DC · AC

Time/Div= 10 μ S/DivCH1 U1
10.000CH1 U1
2.500

No. 186

Volt/Div= 2 V/Div

DC · AC

Time/Div= 20 μ S/Div

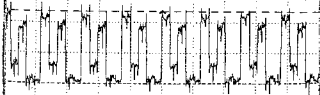
No. 187

Volt/Div= 500m V/Div

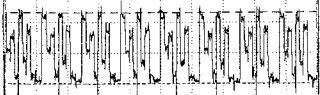
DC · AC

Time/Div= 50 μ S/Div

CH1 41
2.500



CH1 41
2.500



No. 188

Volt/Div= 500m V/Div

CH1 41

Time/Div= 50 μ S/Div

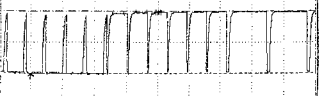
No. 189

Volt/Div= 500m V/Div

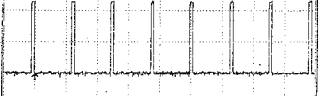
CH1 41

Time/Div= 50 μ S/Div

CH1 41
10.000



CH1 41
10.000



No. 190

Volt/Div= 2 V/Div

CH1 41

Time/Div= 50 μ S/Div

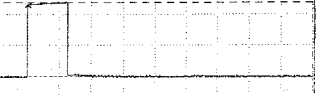
No. 191

Volt/Div= 2 V/Div

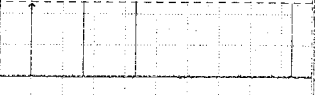
CH1 41

Time/Div= 50 μ S/Div

CH1 41
10.000



CH1 41
10.000



No. 192

Volt/Div= 2 V/Div

CH1 41

Time/Div= 50 μ S/Div

No. 193

Volt/Div= 2 V/Div

CH1 41

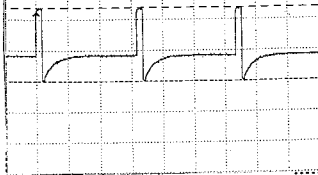
Time/Div= 10m S/Div

CH1 41
10.000



CH1 41
10.000

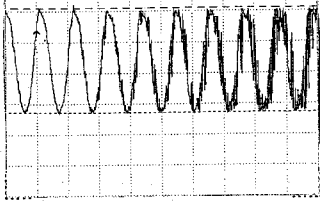


CH1 01
10.000

No. 194

Volt/Div= 2 V/Div

DC AC

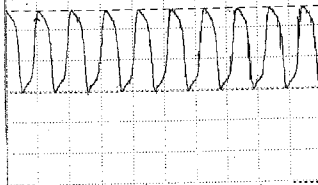
Time/Div= 20 μ S/DivCH1 01
10.000

No. 195

Volt/Div= 2 V/Div

DC AC

Time/Div= 50 nS/Div

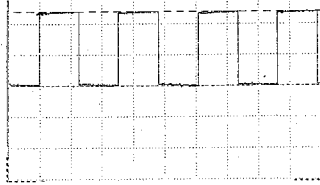
CH1 01
10.000

No. 196

Volt/Div= 2 V/Div

DC AC

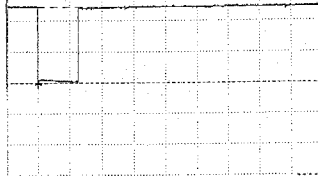
Time/Div= 50 nS/Div

CH1 01
10.000

No. 197

Volt/Div= 2 V/Div

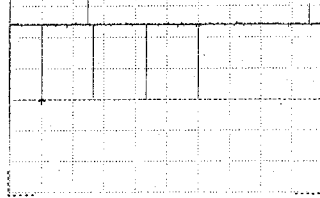
DC AC

Time/Div= 50 μ S/DivCH1 01
10.000

No. 198

Volt/Div= 2 V/Div

DC AC

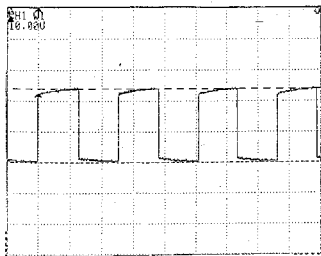
Time/Div= 50 μ S/DivCH1 01
10.000

No. 199

Volt/Div= 2 V/Div

DC AC

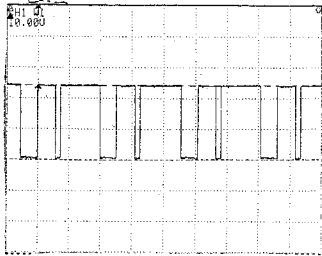
Time/Div= 10 mS/Div



No. 200

Volt/Div= 2 V/Div

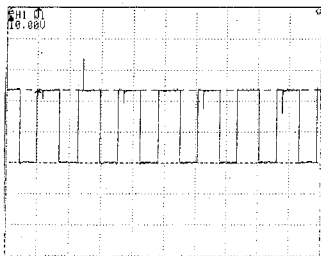
DC · AC

Time/Div= 50 μ S/Div

No. 201

Volt/Div= 2 V/Div

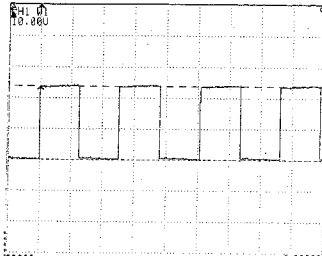
DC · AC

Time/Div= 50 μ S/Div

No. 202

Volt/Div= 2 V/Div

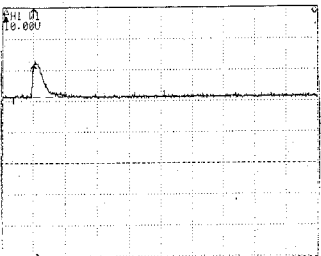
DC · AC

Time/Div= 50 μ S/Div

No. 203

Volt/Div= 2 V/Div

DC · AC

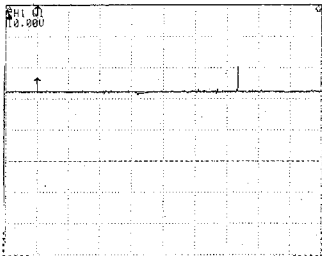
Time/Div= 50 μ S/Div

No. 204

Volt/Div= 2 V/Div

DC · AC

Time/Div= 200 n S/Div



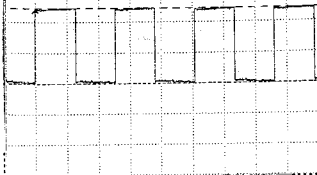
No. 205

Volt/Div= 2 V/Div

DC · AC

Time/Div= 20 μ S/Div

CH1 01
10.000



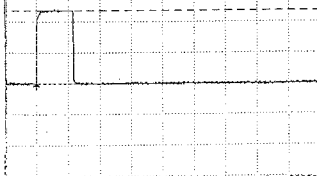
No. 206

Volt/Div= 2 V/Div

10 AC

Time/Div= 50 μ S/Div

CH1 01
10.000



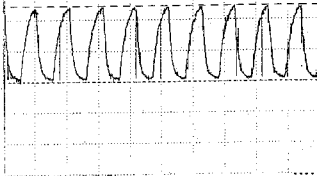
No. 207

Volt/Div= 2 V/Div

10 AC

Time/Div= 500 n S/Div

CH1 01
10.000



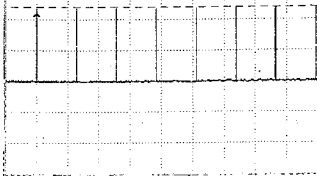
No. 209

Volt/Div= 2 V/Div

10 AC

Time/Div= 100 n S/Div

CH1 01
10.000



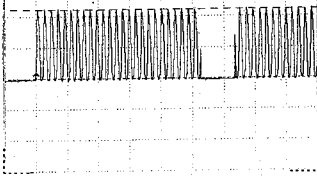
No. 208

Volt/Div= 2 V/Div

10 AC

Time/Div= 50 μ S/Div

CH1 01
10.000

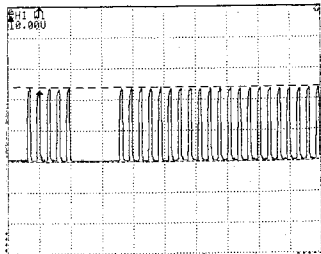


No. 210

Volt/Div= 2 V/Div

DC AC

Time/Div= 10 μ S/Div

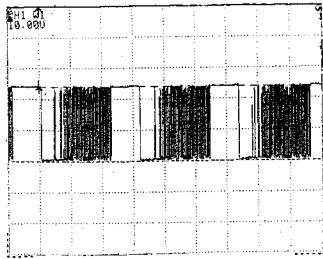


No. 211

Volt/Div= 2 V/Div

DC · AC

Time/Div= 500 n S/Div

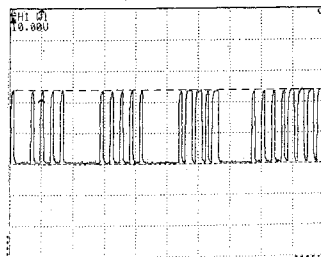


No. 212

Volt/Div= 2 V/Div

DC · AC

Time/Div= 20 μ S/Div

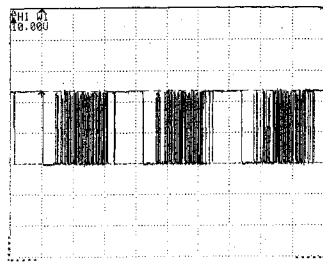


No. 213

Volt/Div= 2 V/Div

DC · AC

Time/Div= 500 n S/Div

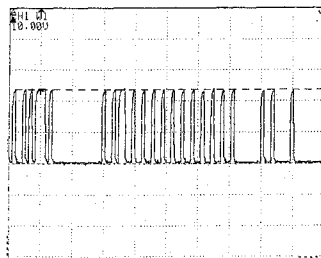


No. 214

Volt/Div= 2 V/Div

DC · AC

Time/Div= 20 μ S/D

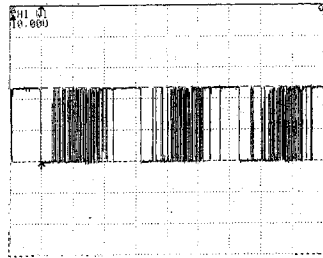


No. 215

Volt/Div= 2 V/Div

DC · AC

Time/Div= 500 n S/Div

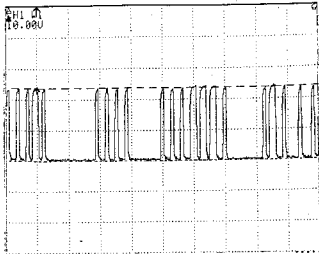


No. 216

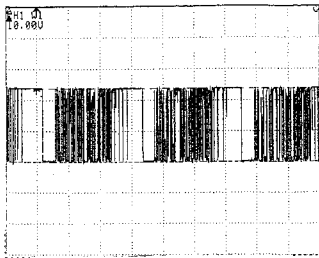
Volt/Div= 2 V/Div

DC · AC

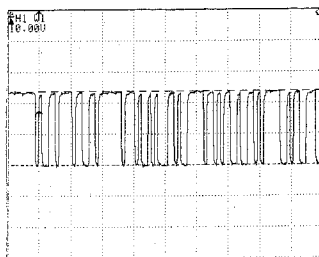
Time/Div= 20 μ S/Div



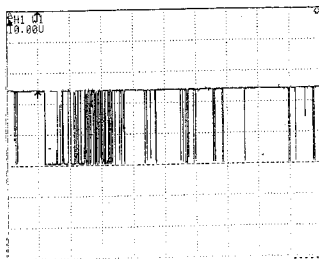
No. 217 Volt/Div= 2 V/Div
 DC · AC Time/Div= 500 ns/Div



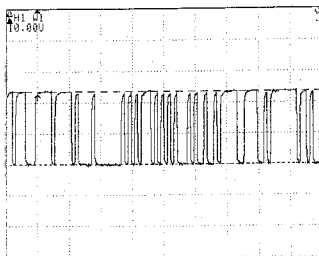
No. 218 Volt/Div= 2 V/Div
 DC · AC Time/Div= 20 μs/Div



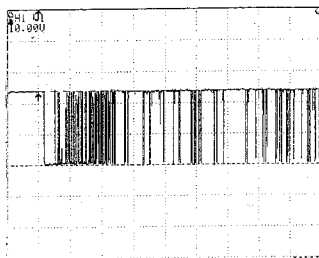
No. 219 Volt/Div= 2 V/Div
 DC · AC Time/Div= 500 ns/Div



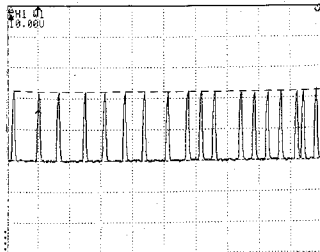
No. 220 Volt/Div= 2 V/Div
 DC · AC Time/Div= 10 μs/Div



No. 221 Volt/Div= 2 V/Div
 DC · AC Time/Div= 500 ns/Div

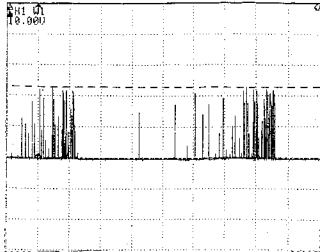


No. 222 Volt/Div= 2 V/Div
 DC · AC Time/Div= 10 μs/Div



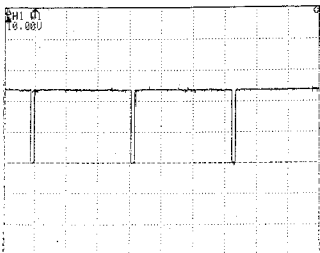
No. 223 Volt/Div= 2 V/Div

AC Time/Div= 500n S/Div



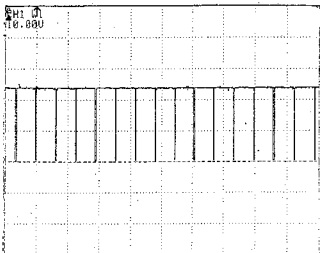
No. 224 Volt/Div= 2 V/Div

AC Time/Div= 10 μ S/Div



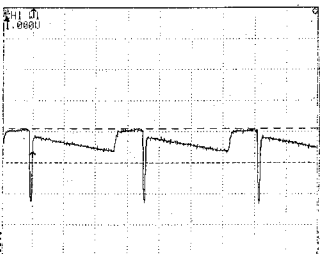
No. 225 Volt/Div= 2 V/Div

AC Time/Div= 20 μ S/Div



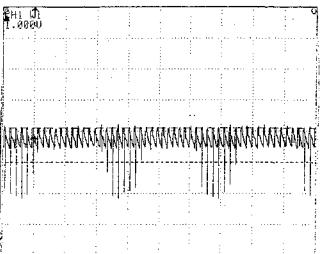
No. 226 Volt/Div= 2 V/Div

DC AC Time/Div= 100 μ S/D



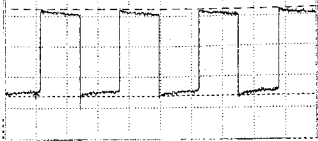
No. 227 Volt/Div= 200m V/Div

AC Time/Div= 5 μ S/Div



No. 228 Volt/Div= 200m V/Div

AC Time/Div= 100 μ S/Div

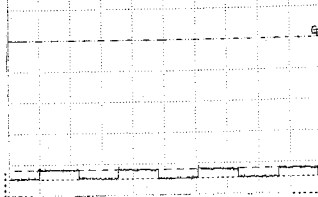
CH1 01
2.50V

No. 229

Volt/Div= 500m V/Div

00 · AC

Time/Div= 50 μ S/Div

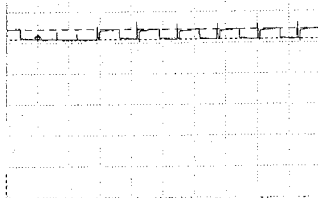
CH1 01
15.00V

No. 231

Volt/Div= 5 V/Div

00 · AC

Time/Div= 50 μ S/Div

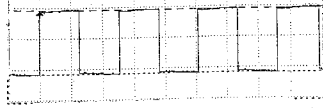
CH1 01
10.00V

No. 233

Volt/Div= 2 V/Div

00 · AC

Time/Div= 100 μ S/Div

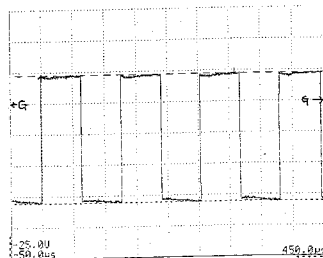
CH1 01
50.00V

No. 230

Volt/Div= 10 V/Div

00 · AC

Time/Div= 50 μ S/Div

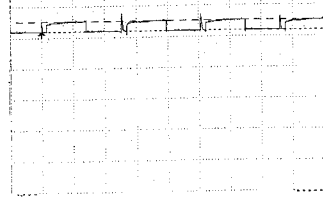


No. 232

Volt/Div= 5 V/Div

00 · AC

Time/Div= 50 μ S/Div

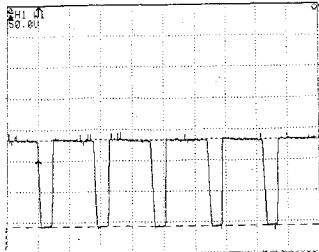
CH1 01
10.00V

No. 234

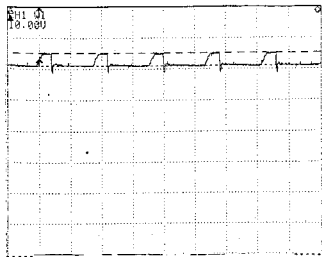
Volt/Div= 2 V/Div

00 · AC

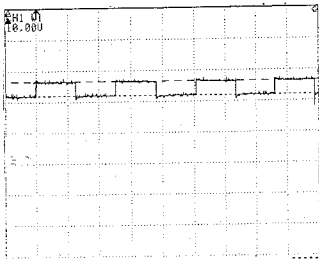
Time/Div= 50 μ S/Div



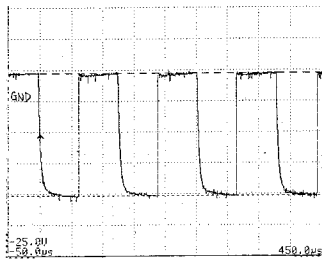
No. 235 Volt/Div= 10 V/Div
DC · AC Time/Div= 10 μs S/Div



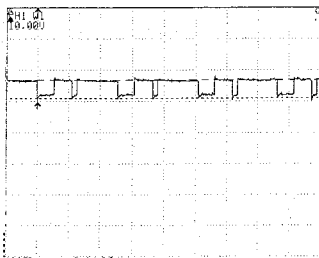
No. 236 Volt/Div= 2 V/Div
DC · AC Time/Div= 10 μs S/Div



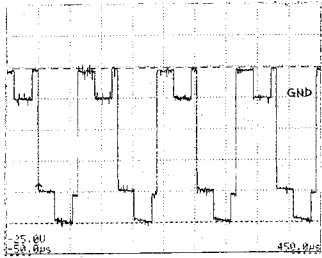
No. 237 Volt/Div= 2 V/Div
DC · AC Time/Div= 50 μs S/Div



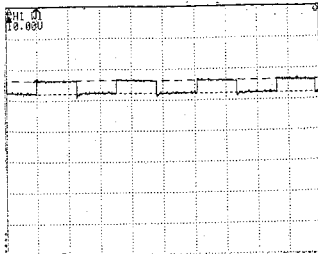
No. 238 Volt/Div= 5 V/Div
DC · AC Time/Div= 50 μs S/Div



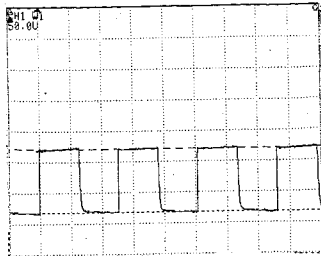
No. 239 Volt/Div= 2 V/Div
DC · AC Time/Div= 50 μs S/Div



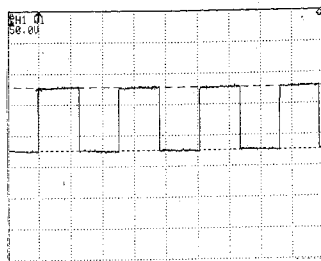
No. 240 Volt/Div= 5 V/Div
DC · AC Time/Div= 50 μs S/Div



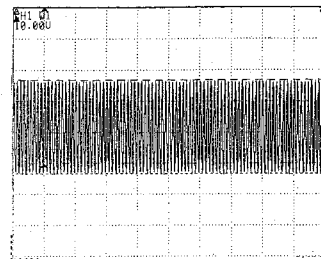
No. 241 Volt/Div= 2 V/Div
 10 AC Time/Div= 50 μ S/Div



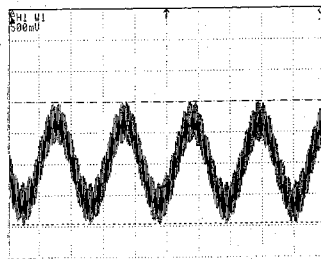
No. 242 Volt/Div= 10 V/Div
 10 AC Time/Div= 50 μ S/Div



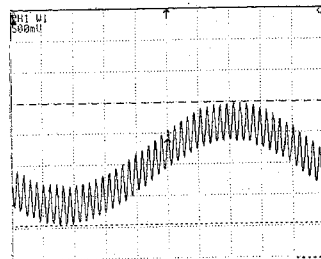
No. 243 Volt/Div= 10 V/Div
 DC AC Time/Div= 50 μ S/Div



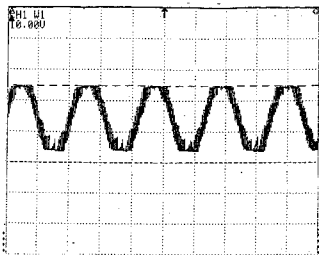
No. 244 Volt/Div= 2 V/Div
 10 AC Time/Div= 500 n S/Div



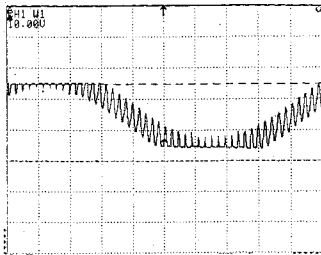
No. 245 Volt/Div= 100 m V/Div
 DC AC Time/Div= 500 μ S/Div



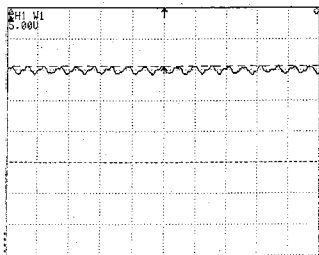
No. 246 Volt/Div= 100 m V/Div
 DC AC Time/Div= 100 μ S/Div



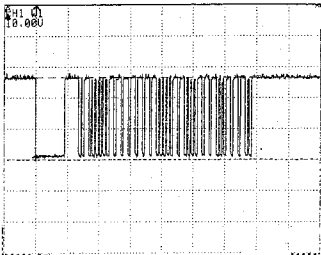
No. 247 Volt/Div= 2 V/Div
 60 AC Time/Div= 500 μ S/Div



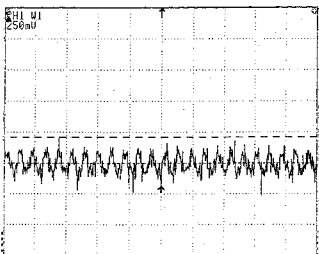
No. 248 Volt/Div= 2 V/Div
 60 AC Time/Div= 100 μ S/Div



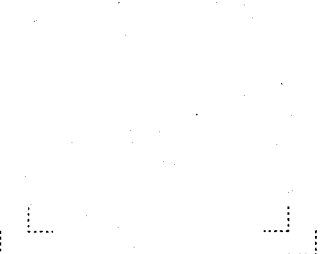
No. 249 Volt/Div= 1 V/Div
 60 AC Time/Div= 2 mS/Div



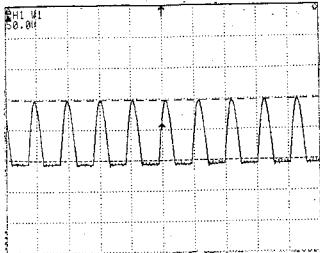
No. 250 Volt/Div= 2 V/Div
 60 AC Time/Div= 10 mS/Div



No. 251 Volt/Div= 50 mV/Div
 DC AC Time/Div= 50 μ S/Div

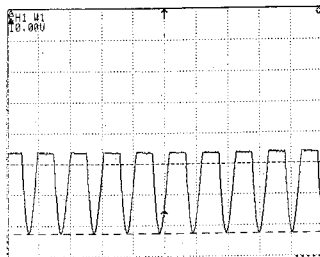


No. 252 Volt/Div= V/Div
 DC AC Time/Div= S/Div



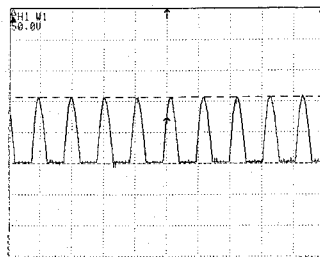
No. 252 Volt/Div= 10 V/Div

10 · AC Time/Div= 20 μs/Div



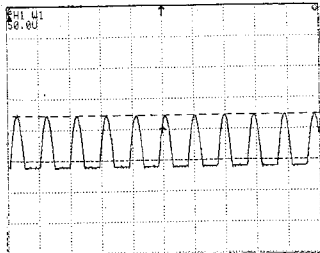
No. 254 Volt/Div= 2 V/Div

10 · AC Time/Div= 20 μs/Div



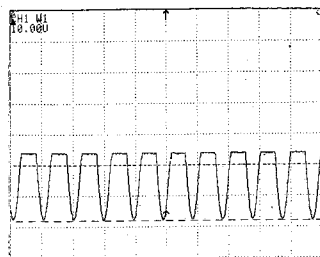
No. 256 Volt/Div= 10 V/Div

10 · AC Time/Div= 20 μs/Div



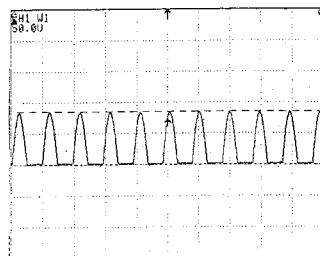
No. 253 Volt/Div= 10 V/Div

10 · AC Time/Div= 20 μs/Div



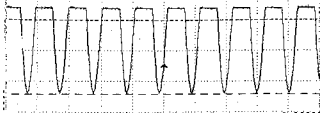
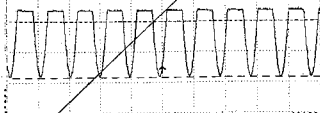
No. 255 Volt/Div= 2 V/Div

10 · AC Time/Div= 20 μs/Div



No. 257 Volt/Div= 10 V/Div

10 · AC Time/Div= 20 μs/Div

CH1 U1
10.000

 CH1 U1
10.000


No. 258

Volt/Div= 2 V/Div

DC · AC

Time/Div= 20 μS/Div

No. 259

Volt/Div= 2 V/Div

DC · AC

Time/Div= 20 μS/Div

波形 No.

Volt/Div= V/Div

DC · AC

Time/Div= S/Div

波形 No.

Volt/Div= V/Div

DC · AC

Time/Div= S/Div

波形 No.

Volt/Div= V/Div

DC · AC

Time/Div= S/Div

波形 No.

Volt/Div= V/Div

DC · AC

Time/Div= S/Div

Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μ F=microfarads pF=picofarads

Abbreviations			Symbol No.	Part No.	Description
RES.= Resistor	CAP.= Capacitor		Filters		
C.F.= Carbon Film	ELY.= Electrolytic		Z300	25E24596S01	EMI, CP, BLM21B751SPT
M.F.= Metal Film	CER.= Ceramic		Z301	25E24596S01	EMI, CP, BLM21B751SPT
M.O.= Metal Oxide Film	MYL.= Mylar		Z302	25E24596S01	EMI, CP, BLM21B751SPT
M.P.= Metal Plate	TAN.= Tantalum		Coils / Thermistor		
TR.= Transistor	POLY.= Polystyrol		L500	24E24499S01	Inductor, 1mH
TRANS.= Transformer	PP.= Polypropylene		L600	24E25077S01	Inductor, CP, 2.2 μ H
CP.= Chip	PLT.= Polyethylene		TH500	48E24557S01	Thermistor, CP, 20K ohm
	PF.= Polyester Film		Capacitors		
Symbol No.	Part No.	Description	C300	08E24547S01	CP., 0.01 μ F
Control P.C.Board			E300	23E25068S01	ELY., 100 μ F / 16V
IC's			C301	08E24648S01	CP., 0.1 μ F
IC300	51E24494S01	HA178L05JA	E301	23E25068S01	ELY., 100 μ F / 16V
IC500	51E24245S01	BA10358F	E302	23E24673S01	ELY., 100 μ F / 6.3V
IC501	51E24245S01	M5291FP	E303	23E24673S01	ELY., 100 μ F / 6.3V
IC600	51E25075S01	EV9513C	E304	23E25064S01	ELY., 47 μ F / 6.3V
Transistors			E308	23E24673S01	ELY., 100 μ F / 6.3V
Q300	48E24502S01	CP., 2SB709A	C997	23E25111S01	ELY., (B.P) 10 μ F / 16V
Q500	48E24502S01	CP., 2SB709A	C998	23E25111S01	ELY., (B.P) 10 μ F / 16V
Q501	48E24503S01	CP., XN4601	C999	23E25111S01	ELY., (B.P) 10 μ F / 16V
Q502	48E24503S01	CP., XN4601	C500	08E24545S01	CP., 1000pF
Q603	48E24503S01	CP., XN4601	C601	08E24547S01	CP., 0.01 μ F
Q504	48E24502S01	CP., 2SB709A	E601	23E25110S01	ELY., 47 μ F / 16V
Q505	48E25078S01	CP., 2SB799	E502	23E25109S01	ELY., 22 μ F / 35V
Q600	48E24503S01	CP., XN4601	C603	08E24549S01	CP., 0.033 μ F
Q601	48E24503S01	CP., XN4601	E503	23E25109S01	ELY., 22 μ F / 35V
Q602	48E24503S01	CP., XN4601	E504	08E24543S01	CP., 0.1 μ F
Diodes			E504	23E25060S01	ELY., 3.3 μ F / 50V
D500	48E24504S01	CP., MA142WK	C605	08E24662S01	CP., 2200pF
D601	48E24510S01	CP., RB110C	E505	23E25081S01	ELY., 10 μ F / 16V
ZD500	48E24503S01	Zener, CP, MA3160-H	C606	08E24548S01	CP., 4700pF
ZD501	48E25079S01	Zener, CP, MA3330-L	C507	08E25105S01	CP., 0.47 μ F
ZD600	48E24508S01	Zener, CP, MA3056-L	C599	23E25111S01	ELY., (B.P) 10 μ F / 16V
VD600	48E25852S01	Varactor, CP, 1T363A	C600	08E24645S01	CP., 0.33 μ F
			C601	08E25043S01	CP., 4700pF
			C602	08E24545S01	CP., 1000pF
			C603	08E25045S01	CP., 110pF

TME-M006SP

Symbol No.	Part No.	Description
C604	08E24548S01	CP., 0.1 μ F
C605	08E24547S01	CP., 0.01 μ F
C606	08E24547S01	CP., 0.01 μ F
C607	08E24544S01	CP., 470pF
C608	08E24545S01	CP., 1000pF
C609	08E24545S01	CP., 1000pF
C610	08E24545S01	CP., 1000pF
C611	08E24545S01	CP., 1000pF
C612	08E24540S01	CP., 1 μ F
C613	08E24544S01	CP., 470pF
C614	08E24544S01	CP., 470pF
C616	08E24540S01	CP., 1 μ F
C617	08E24547S01	CP., 0.01 μ F
C618	08E24545S01	CP., 1000pF
C619	08E24545S01	CP., 1000pF
C620	08E24547S01	CP., 0.01 μ F
C621	08E24545S01	CP., 0.33 μ F
C622	08E24547S01	CP., 0.01 μ F
C623	08E24547S01	CP., 0.01 μ F
C624	08E25106S01	CP., 100pF
C625	08E25106S01	CP., 100pF
C626	08E24547S01	CP., 0.01 μ F
C627	08E24547S01	CP., 0.01 μ F
C628	08E24547S01	CP., 0.01 μ F
C650	08E24540S01	CP., 1 μ F
(All resistors are chip 1/10W \pm 5% unless otherwise noted.)		
Resistors		
R300	08E25082S01	1K ohm
R301	08E24538S01	1K ohm 1/16W X 4
R306	08E25098S01	3.3 ohm
R307	06E25095S01	390 ohm
R308	06E25095S01	3.9K ohm
R309	06E25095S01	390 ohm
R500	08E24684S01	33K ohm
R501	08E25095S01	3.3 ohm
R502	06E25088S01	18K ohm
R503	06E25097S01	39K ohm
R504	08E25103S01	82K ohm
R505	06E25095S01	3.9K ohm
R506	06E25093S01	27K ohm
R507	06E25082S01	1K ohm
R508	08E25097S01	16K ohm
R509	08E25102S01	680 ohm
R510	06E25082S01	1K ohm

Symbol No.	Part No.	Description
R511	06E25082S01	1K ohm
R512	06E25086S01	12K ohm
R513	06E25089S01	22 ohm
R514	06E25100S01	4.7K ohm
R515	06E25100S01	4.7K ohm
R516	06E25099S01	470 ohm
R517	06E25100S01	4.7K ohm
R518	06E25082S01	1K ohm
R519	06E25099S01	470 ohm
R600	08E25100S01	4.7K ohm
R601	08E25093S01	27K ohm
R602	06E25094S01	330 ohm
R603	06E25101S01	47K ohm
R604	06E25083S01	16K ohm
R605	06E25099S01	3.3 ohm
R607	08E25084S01	100K ohm
R608	06E25091S01	2.2K ohm
R609	06E25099S01	3.3 ohm
R610	06E25092S01	2.7K ohm
R611	06E25081S01	100 ohm
R612	06E25092S01	2.7K ohm
R614	06E25090S01	220 ohm
R615	06E25090S01	220 ohm
R618	06E25104S01	390 ohm 1/16W X 4
R619	06E25104S01	390 ohm 1/16W X 4
R624	06E25085S01	1M ohm
R625	06E25085S01	1M ohm
VR500	18E25078S01	Variable, 22K ohm
VR600	18E24497S01	Variable, 50K ohm
SUB (1) P.C.Board		
IC		
IC160	51E25114S01	NJM386D
Transistors		
Q540	48E24271S01	CP., UN2211
Q541	48E24679S01	CP., 25B1205
Q900	48E24289S01	CP., 25D1758
Q901	48E24289S01	CP., 25D1758

Symbol No.	Part No.	Description
Coil / Transformer		
L900	24E24678S01	Inductor, 100µH
T900	25E24677S01	Transformer, Power 3000559
Switches / Fuse		
S500	40E24281S01	Slide, ESD11H120 (POWER)
S501	40E24281S01	Slide, ESD11H120 (DIMMER)
F640	65E24287S01	Fuse, CCP2E13 (0.52A)
Capacitors		
C160	08E24645S01	CP., 0.33µF
C161	08E24662S01	CP., 2200pF
E161	23E25119S01	ELY., 220µF / 10V
C162	08E24646S01	CP., 0.1µF
E162	23E25120S01	ELY., 100µF / 6.3V
C163	08E24648S01	CP., 0.1µF
E163	23E25121S01	ELY., 22µF / 16V
E164	23E25122S01	ELY., 3.3µF / 50V
C169	08E24645S01	CP., 0.33µF
C260	08E24545S01	CP., 1000pF
E440	23E25120S01	ELY., 100µF / 6.3V
E540	23E25650S01	ELY., 33µF / 16V
E541	23E25121S01	ELY., 22µF / 16V
C900	08E24684S01	ECQV1J124JM, 0.12µF
E900	23E25119S01	ELY., 220µF / 10V
C902	08E24654S01	CP., 0.022µF
C903	08E24686S01	DE0707SL470J3K, 47pF
C904	08E24686S01	DE0707SL470J3K, 47pF
(All resistors are chip 1/10W±5% unless otherwise noted.)		
Resistors		
R170	06E25129S01	68 ohm 1/4W
R171	06E25129S01	68 ohm 1/4W
R172	06E25129S01	68 ohm 1/4W
R173	06E25083S01	10K ohm
R174	06E25082S01	1K ohm

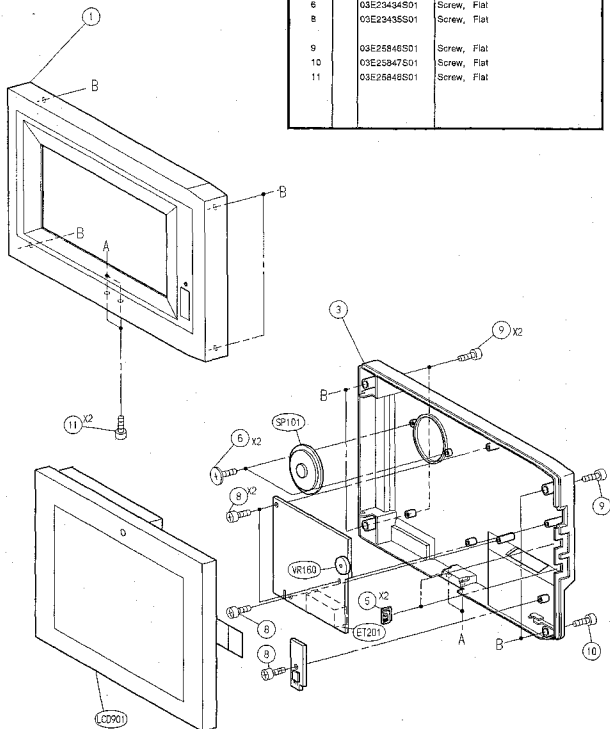
Symbol No.	Part No.	Description
R175	06E24684S01	33K ohm
R176	06E25100S01	4.7K ohm
R177	06E25129S01	68 ohm 1/4W
R547	06E24681S01	ERG15G150P, 15 ohm 1W
R548	06E24616S01	180 ohm 1/4W
R549	06E24616S01	180 ohm 1/4W
R550	06E24680S01	ERG15G120P, 12 ohm 1W
R551	06E24680S01	ERG15G120P, 12 ohm 1W
R557	06E24683S01	10 ohm 1/8W
R558	06E25116S01	620 ohm
R559	06E25100S01	4.7K ohm
R900	06E25082S01	1K ohm
SUB (2) P.C.Board		
IC		
IC405	51E24290S01	PNA4602MODLB
LED		
LD500	48E24693S01	LED, SLR-33DU (ORG)
Miscellaneous		
ET201	09E24707S01	16P Connector (From TV Tuner Unit)
LCD901	01E25942S01	Assy., LCD Unit (Included Assy., Control P.C.Board)
SP101	50E25134S01	Speaker
VR160	18E24288S01	Volume, 5K ohm (VOLUME)

Exploded View (Cabinet)

Cabinet Assembly Parts List

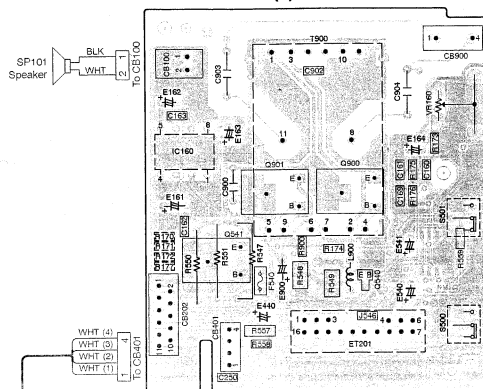
NOTE: No parts number on parts list are not supplied.

Symbol No.	Index	Part No.	Description
1		01E28841S01	Assy., Case Surface
3		15E28845S01	Case, Bottom
5		36E23431S01	Lever, Switch
6		03E23434S01	Screw, Flat
8		03E23435S01	Screw, Flat
9		03E28846S01	Screw, Flat
10		03E28847S01	Screw, Flat
11		03E28848S01	Screw, Flat

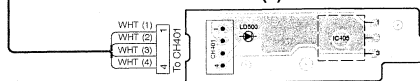


5

Sub (1) P.C.Board



Sub (2) P.C.Board



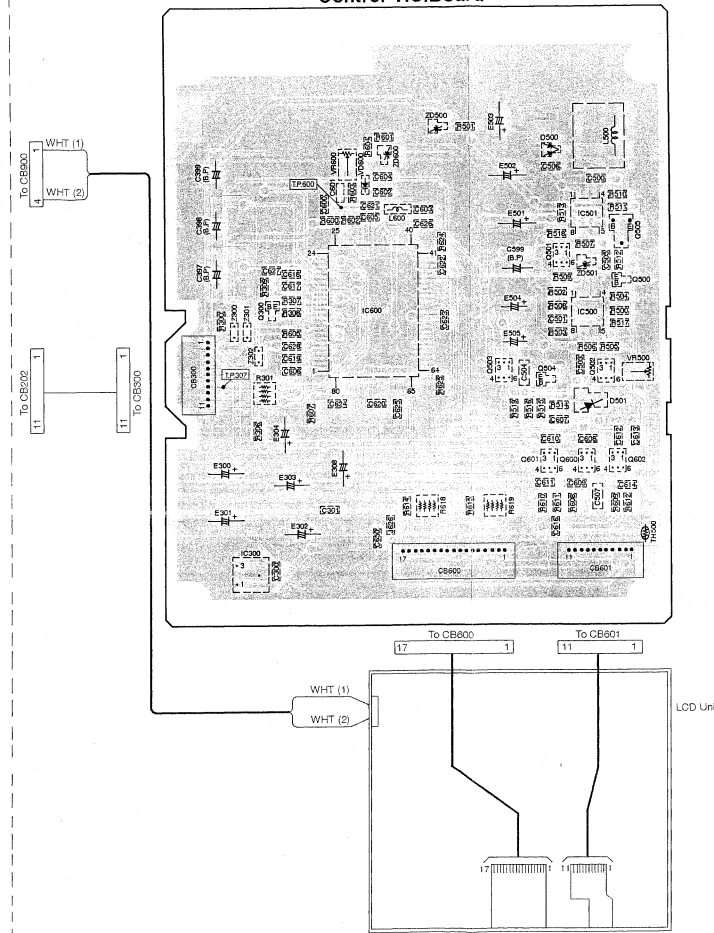
A

B

C

D

Control P.C.Board



LCD Unit

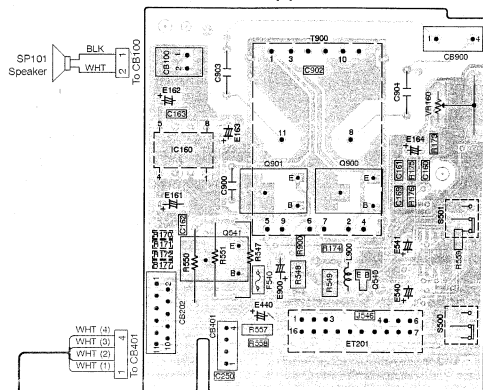
E

F

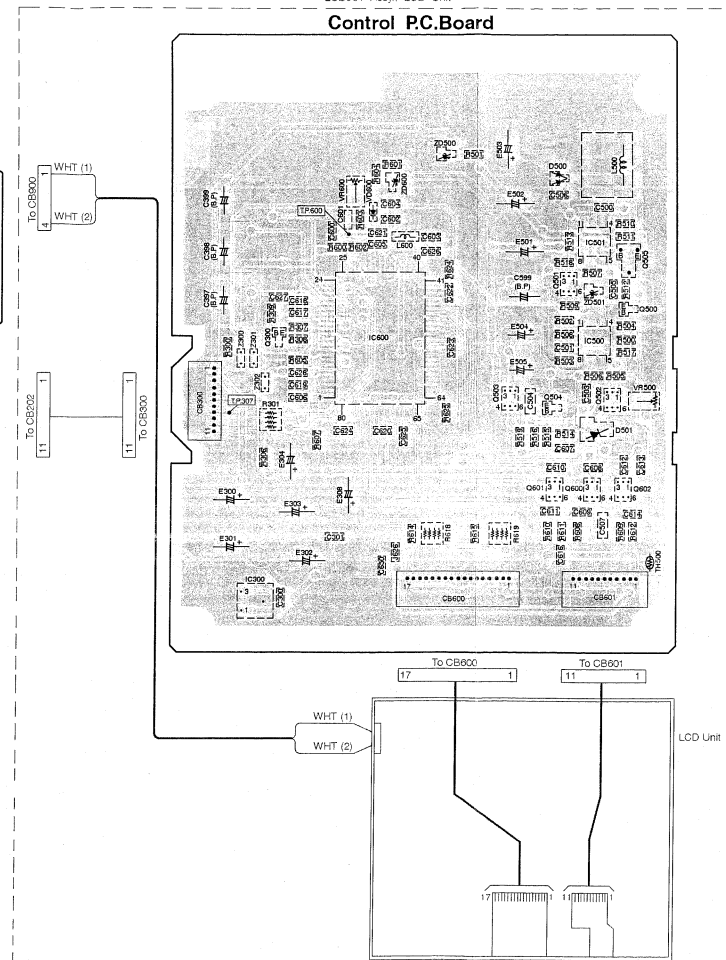
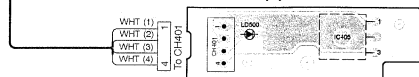
G

LCD901 Assy., LCD Unit

Sub (1) P.C.Board



Sub (2) P.C.Board



Orange Color Pattern :Component Side Pattern
Blue Color Pattern :Foil Side Pattern

A

B

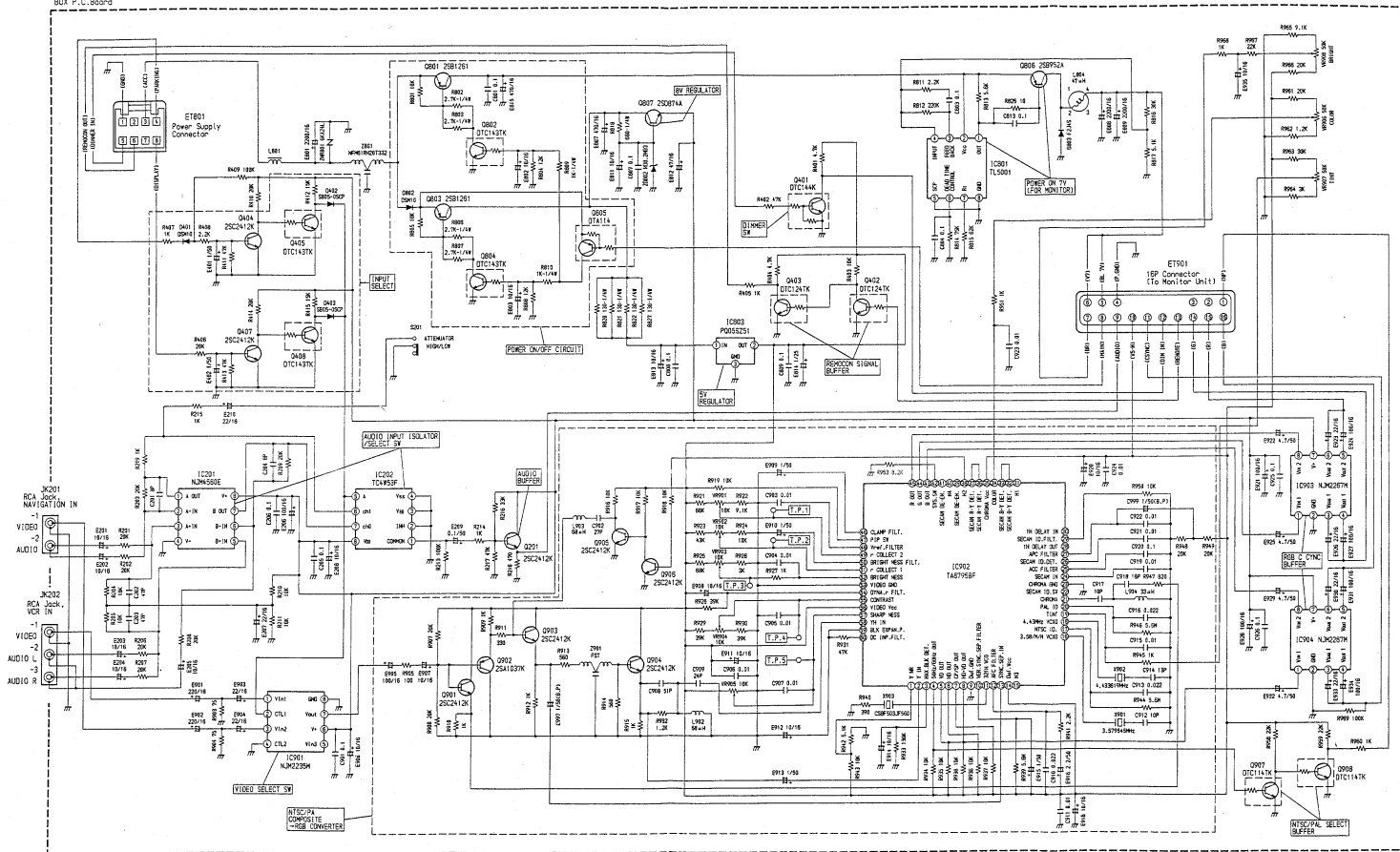
C

D

E

F

G



TME-M006SP

Terminal Voltage of IC/TR

IC201 IC803 IC902 IC903, 904

8	8V	1	5V	35	5V	7	8V
		3	10.5V				

	E	C	B
Q801	14.2V	14.1V	---
Q803	13.4V	13.3V	---
Q805	13.4V	---	---
Q806	14V	PS	---
Q807	8.1V	13.3V	---

NOTE : For the terminal voltage not mentioned, the voltage indication is omitted for the voltage varies depend on the operation mode.

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : Monitor Unit Connection

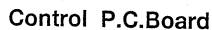
Electrical Parts List

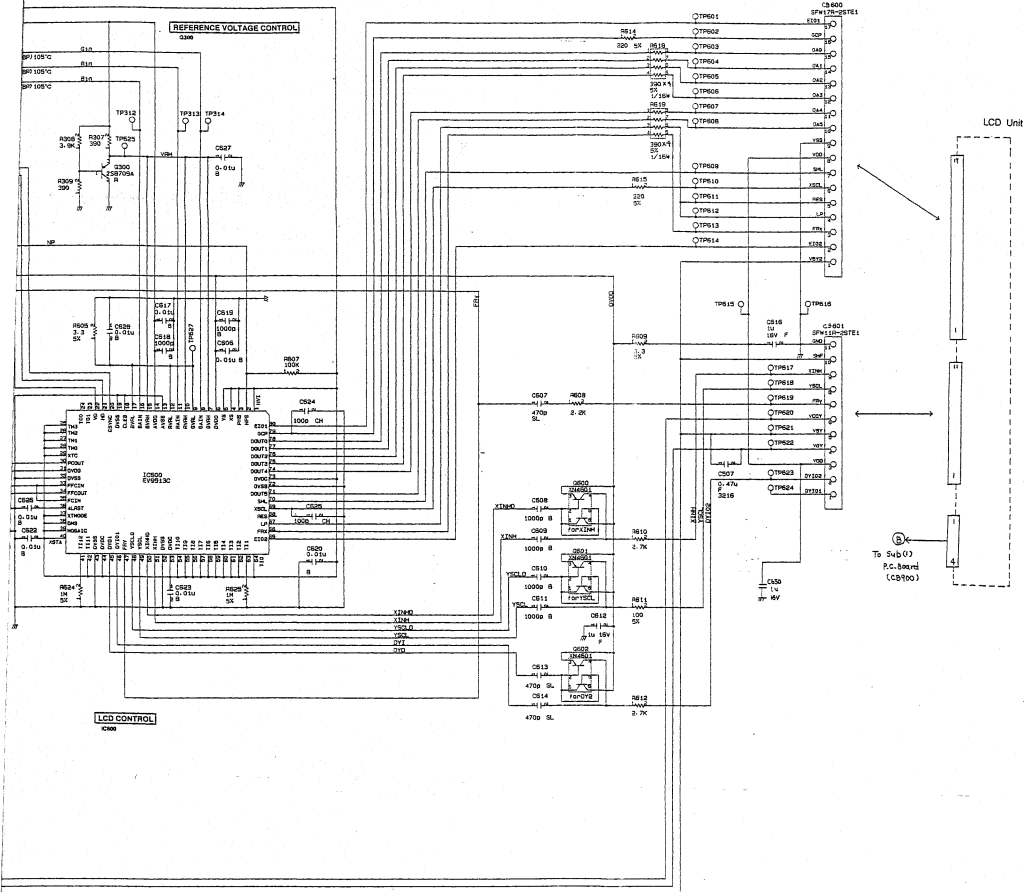
Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μ F=microfarads, pF=picofarads

Abbreviations			Symbol No.	Part No.	Description
RES.= Resistor C.F.= Carbon Film M.F.= Metal Film M.O.= Metal Oxide Film M.P.= Metal Plate TR.= Transistor TRANS.= Transformer CP.= Chip CAP.= Capacitor ELY.= Electrolytic CER.= Ceramic MYL.= Mylar TAN.= Tantalum POLY.= Polystyrol PP.= Polypropylene PLT.= Polyethylene PF.= Polyester Film			Diodes		
			D401	48T15512W01	CP., DSM10
			D402	48T15702W01	CP., SB05 -05CP
			D403	48T15702W01	CP., SB05 -05CP
			D802	48T15512W01	CP., DSM10
			D803	48T75066W01	CP., F2J45
			ZD802	48T62934F35	Zener, CP. RD8.2MB3
Symbol No. Part No. Description			Coils		
BOX P.C.Board			L801	25C40894G10	Choke Filter
IC's			L804	24T75269W09	Inductor, 47 μ H
IC201 51T93338F01 NJM4560E			L902	24T75195W48	Inductor, CP. 68 μ H
IC202 51T45178W02 TC4W53F			L903	24T75195W48	Inductor, CP. 68 μ H
IC201 51T75529W01 TL50001			L904	24T75195W44	Inductor, CP. 33 μ H
IC803 51T65483W02 PQ055Z51			Crystals		
IC901 51T65249W01 NJM2235M			X801	91T94641F02	3.579545MHz
IC902 51T85451W01 TA8795BF			X902	91T94641F22	4.433619MHz
IC903 51T85419W01 NJM2267M			X903	91T85054W02	CER. Lock, CP. CSBF503JF560 (512KHz)
IC904 51T85419W01 NJM2267M			Filters		
Transistors			Z801	91T55325W08	CP., NFM61RH20T332
Q201 48T63417F01 CP., 25C2412K			Z901	91T85504W01	CP., FST (2.3MHz)
Q401 48T62967F04 CP., DTC144K			Surge Absorber		
Q402 48T62967F21 CP., DTC124TK			ZNR801	48T85018W01	6KA24L
Q403 48T62967F21 CP., DTC124TK			Capacitors		
Q404 48T63417F01 CP., 25C2412K			C201	08S65128F10	CP., 8pF
Q405 48T62967F23 CP., DTC143TK			E201	23T75478W15	ELY., 10 μ F / 16V
Q407 48T63417F01 CP., 25C2412K			C202	08S65128F27	CP., 47pF
Q408 48T62967F23 CP., DTC143TK			E202	23T75478W15	ELY., 10 μ F / 16V
Q801 48T15511W02 CP., 25B1261			C203	08S65128F27	CP., 47pF
Q802 48T62967F23 CP., DTC143TK			E203	23T75478W15	ELY., 10 μ F / 16V
Q803 48T15511W02 CP., 25B1261			C204	08S65128F10	CP., 8pF
Q804 48T62967F23 CP., DTC143TK			E204	23T75478W15	ELY., 10 μ F / 16V
Q805 48T62966F02 CP., DTA114			C205	08S65128F76	CP., 0.1 μ F
Q806 48T85527W01 CP., 25B952A					
Q807 48T73023F01 CP., 25D874A					
Q901 48T63417F01 CP., 25C2412K					
Q902 48T63420F01 CP., 25A1037K					
Q903 48T63417F01 CP., 25C2412K					
Q904 48T63417F01 CP., 25C2412K					
Q905 48T63417F01 CP., 25C2412K					
Q906 48T63417F01 CP., 25C2412K					
Q907 48T62967F09 CP., DTC114TK					
Q908 48T62967F09 CP., DTC114TK					

To Sub (1) R.C. Board (CA202.)





Control P.C.Board